

Transferring Files Between a Pleiades or AWS Front End and AWS S3 Storage

This article describes how to use the `nas_s3_xxx` set of commands on a Pleiades front end (PFE) or an AWS dynamic front end to view, transfer, and delete files and directories under your AWS S3 root location (i.e., /).

Similar to the Lou mass storage system at NAS, the AWS S3 system functions as long-term storage. The data stored in your S3 folder is not accessible or visible to any other user. You will not have the required AWS credentials to directly access the S3 storage from either a PFE or an AWS dynamic front end, but you can use the following set of commands to check, transfer or delete files in your S3 folder from a PFE or from an AWS dynamic front end.

On Pleiades, these commands are located in the `/u/scicon/tools/bin` directory. On an AWS dynamic front end, they are located in the `/opt/pbs/bin` directory.

Note: To use these commands, you must have write permission on the location where the commands are issued.

- **View:** `nas_s3_ls [--group X] my_folder`
- **Transfer to S3:** `nas_s3_put [--group X] [file1 directory1 file2 directory2 ...] s3_folder`
- **Transfer from S3:** `nas_s3_get [--group X] [file1 folder1 file2 folder2 ...]`
- **Delete:** `nas_s3_del [--group X] [file1 file2 folder1 folder2 ...]`

If you have more than one AWS group, and you want to use a non-default one, add `--group X` where `X` is a group ID (GID).

Please note the following:

- A `nas_s3_xxx` command creates a PBS job to the `s3op` queue behind the scenes. It may take a few minutes to get a response back after issuing the command. After putting files/directories to S3 with the `nas_s3_put` command, it may take up to 10 minutes to see them at S3 with the `nas_s3_ls` command.
- Currently, there is a limit of 10 `nas_s3_xxx` jobs per user. Pending usage loads and network bandwidth, the limit may change in the future.

To learn more and find examples, simply issue any one of these commands without any options on a PFE or an AWS dynamic front end.

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<https://www.nas.nasa.gov/hecc/support/kb/entry/589/>